

Conference

June 22, 2006 Expo-Wal in Hannover, Germany

- Would you like to get an idea of the efficiency of the
- the range of GPS, GLONASS and GALILEO?

for this year's **ALLSATOPEN** conference.

ground in the Expo-Wal conference centre on June 22, GPS, GLONASS and GALILEO for a Global Navigation

# Thursday June 22, 2006

Welcome and opening of the conference Director of ALLSAT Mayor of the city of Hannover

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Status of the Galileo concession and of the Galileo operations concept

Director of TeleOp GmbH

This presentation will give a status-overview of the current agreements and describes the basic structure of the Galileo

## **Status and Development of GPS**

**Deputy System Program** Director NAVSTAR GPS, US Air Force, Joint Program Office, Los Angeles, USA

During the next years the most common Satellite Navigation System GPS will be substantially modernized. Colonel Reaser will provide an overview on the evolution of GPS that includes a historical perspective, the current status and challenges as well as plans and future prospects for GPS. Some important issues will be the motivation for the GPS modernization, its plan and schedule. Another topic will be a description of the new civil signals, the procedure

## **Status and Development of GLONASS**

Russian Institute of Space Device Engineering, Moscow, Russia

The Russian GLONASS system will provide a full satellite constellation in the year 2007. The presentation will give an overview about the current status of GLONASS, recent developments and the future perspectives. Detailed information about the actual GLONASS Deployment Program will be discussed; a special item will be the ongoing GLONASS modernization. The benefits in using both existing interoperating systems, GPS and GLONASS, will be explained.

## Private talks about GALILEO, GPS and GLONASS

## CEO, Javad Navigation Systems, Inc., USA

There are 15 years of development of combined GNSS receivers at Javad's companies, which has given him a lot of experience to watch the opportunities and challenges of combining GNSS signals.

With the new GeNiuSS™ chip combining all three GNSS the hardware is ready to receive signals from GPS, GLONASS and GALILEO in a single receiver. Based

## **Galileo Developments at Septentrio** Founder and Managing Director,

Septentrio nv, Leuven, Belgium

Septentrio nv, Leuven, Belgium
Septentrio is a leading European manufacturer of professional GNSS receivers. Septentrio grew out of the Europe's premier independent microelectronics center IMEC, Interuniversity Microelectronics Center in Leuven, Belgium.
Septentrio has introduced innovative professional GPS equipment since the beginning of its activities in 2000.
Septentrio receivers were used to receive and process the world's first Galileo signals from space.
The speaker will give a short overview of the company's activities, technology and some of its achievements.

<u> 2:50 – 13:30 LUNCH</u>

## A Long View of GNSS Evolution

A. Stansell, Stansell Consulting, USA

From the user perspective, the GNSS evolution may seem to be creeping forward very slowly. From the systems engineering perspective, the pace is almost frantic. A long view is needed to plan for the important transitions ahead, which will be different for each type of user, from embedded cell phone and car navigation systems to the highest accuracy survey and machine control systems. This presentation will attempt to map the path to the future and highlight the key factors driving the outcome. applications and make recommendations for the signal



# Friday June 23

Invitation to our home fair at ALLSAT. Am Hohen Ufer 3A in Hannover with buffet, beverages and discussions with our staff. customers and partners.

## The influence of new and modernized GNSS on positioning within RTK networks

Director of Geo++ GmbH, Garbsen On Gerhard Wübbena, Director of Geo++ GmbH, Garbsen Modernized GPS will provide new signals like L2C and a third frequency L5. The Russian GLONASS system shall have a full constellation within the near future. The European system Galileo is under development and shall provide another world wide navigation service after 2009. Galileo signals will also be transmitted on three frequencies. With all three systems in a fully operational status the world of positioning will dramatically change with respect to availability accuracy and reliability of the services

## Development of a multi-sensor navigation filter for high accuracy positioning in all environments

Director of the Institute of Engineering Surveying & Space Geodesy, University of Nottingham, United Kingdom

Nottingham, United Kingdom
Even with GPS+GLONASS+GALILEO there are some environments where GNS needs help from additional means.
Seamless Positioning in All Conditions and Environments (SPACE) is a project that aims to address the problems associated with centimetre level positioning in difficult environments such as urban canyons or indoors. This presentation describes the development and the results of the first field trials of a multi-sensor navigation filter that can be used to combine measurements from additional systems such as GNSS integrated with an INS for providing high accuracy positioning in all conditions and environments.

## The contribution of Geodetic Fundamental Stations to Global Navigation Satellite Systems (GNSS) Scientific Director of the fundamental station Wettzell, Germany

tions complementary to the space techniques are carried strength and weakness and the future developments of the observation techniques. In particular the complementary interactions between VLBI, SLR/LLR and the GNSS will be

## **GAUSS - GNSS Centre of Excellence for Safety Critical** Applications, Simulation, Test & Certification

Managing Director GZVB e.V. Project "GAUSS", Braunschweig, Germany Location and navigation play a central role in all modes of transport – air, road, and rail. This market is being revolutionized by the increasing integration of GNSS. Galileo as a civil operated system offers service guarantees especially in the area of safety-critical applications in transportation. But notably standards, processes, and authorisations related to the certification of safety-critical applications in the

## GNS - a short overview of users' expectations and demands

Services, Manager of EU-

Projects and Dipl. Inc. M. Consultant. Development and Sales Manager ALLSAT GmbH Development and Sales Manager ALLSAT GmbH
In the year 2010 over 75 GNS satellites will be available for positioning, navigation and timing applications. The start of the first Galileo satellite GIOVE-A and recent announcements of the Russian Federal Space Agency accompanied by the deployment of new GLONASS satellites strongly contribute to this promising future.

What does the user expect from three satellite systems?

With more than 15 years of experience in the precise positioning and navigation market ALLSAT will give their view on general market demands and trends. Starting from the on general market demands and trends. Starting from the reference networks, the new GPS+GLONASS+GALILEO

## **Panel discussion**

Moderated by Glan Gibbons, Editor and Managing Partner, Inside GNSS, Eugene, USA How will a Global Navigation System look like in 2010?

**Closing of ALLSAT OPEN conference** 

**BBQ** and Music in the Expo-Wal

# theGNSSspecialists



Conference Location: Expo-Wal Chicago Lane 9 30539 Hannover Phone +49(0)511 8765769 Fax +49(0)511 8765774 www.derwal.de

Conference date: June 22, 2006 Start: 10:00 am



Registration fees: € 290,- plus VAT for registrations until April 21, 2006 € 390,- plus VAT for registrations after April 21, 2006

The registration fee includes: Participation in ALLSAT OPEN incl. folder with conference documents, lunch and beverages, evening event with BBQ

Registration at: ALLSAT GmbH, Am Hohen Ufer 3A, 30159 Hannover Phone +49(0)511 30399-0, Fax +49(0)511 30399-66, E-Mail open@allsat.de

Registration deadline: June 9, 2006

In the Hotel and Conference
Centre Hannover-Kleefeld
a limited room contingent has
been booked in advance for
our ALLSAT OPEN participants
(€ 79,- incl. VAT and breakfast).
If you would like to reserve a room
bindingly please contact Mrs.Faupe
Phone: +49(0)511-30399-0,
email: Susanne.Faupel@allsat.de

Organizer:
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Location description can be downloaded under the following links:

- Expo-Wal (ALLSAT OPEN) www.derwal.deKontakt
- ▶ Anfahr
- ALLSAT (Home fair www.allsat.de
   Home
  - Anfahrt/Location

